

ACC NR: AP6034026

SOURCE CODE: UR/0080/66/039/010/2236/2243

AUTHOR: Gordeyeva, L. Ya.; Kocherginskiy, M. D.; Pen'kova, L. F.

ORG: none

TITLE: On minimizing self-dissolution of zinc electrode in zinc-air cells with alkali electrolyte

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 10, 1966, 2236-2243

TOPIC TAGS: electrolytic cell, battery component, zinc air cell, zinc electrode, dry cell, *electrode design, zinc*

ABSTRACT: Specifications concerning purity, particle size, and amalgamation of zinc powder and composition of the paste for the zinc electrode, also concerning the purity of the alkali electrolyte, were developed as a result of experiments which were described. The purpose of the experiments was to minimize the rate of dissolution of zinc at the electrolyte-air interface in the stored or operating zinc-air battery of the "VOSTOK" type, which was developed in the past few years for radio power supply. The specifications developed were checked in discharge tests of the sealed individual cells and battery packs over a period of 1200 hr at a rate of 4 hr per day. Both the plate and filament batteries were tested, freshly made or stored for 15 months. The new battery pack of the "VOSTOK" type is 3.5 times lighter and

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UDC: 541.136

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3 times smaller in volume than the serial pack of the zinc-salt-manganese system of equal capacity. *Thanks for consultation, 2001 experiment by Professor Z. A. Ioffe.*
Orig. art. has: 3 figures, 3 tables, and 6 formulas. [WA-100]

SUB CODE: 10/ SUBM DATE: 26Jul64/ ORIG REF: 016/

Card 2/2

U 03/93-07 PSS-27/EWT(1) DS

ACC NR: AP6030579

SOURCE CODE: UR/0413/66/000/016/0058/0058

INVENTOR: Kocherginskly, M. D.; Nen'kova, L. F.; Kalachev, S. L.; Lidorenko, N. S.

24
B

ORG: none

TITLE: Rechargeable disc shaped alkali galvanic cell. ²⁹ Class 21, No. 184948.
[announced by All-Union Scientific Research Institute of Power Sources (Vsesoyuznyy nauchno-issledovatel'skiy institut istochnikov toka)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 58

TOPIC TAGS: galvanic cell, rechargeable galvanic cell

ABSTRACT: An Author Certificate has been issued describing a rechargeable disc shaped, alkali-galvanic cell with a negative zinc electrode a positive manganese dioxide electrode and a thick electrolyte diaphragm (see Fig. 1). To improve the electrical ratings, the cell is provided with a casing having a symmetrical lug along the inside perimeter on which the diaphragms rest with the negative electrode between them, while the positive electrodes are arranged above the diaphragm.

Card 1/2

UDC: 621.352.7

ACC NR: AP6030579

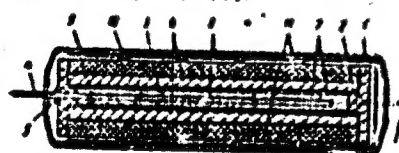
APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723510008-5

Orig. art. has: 1 figure. [Translation]

Fig. 1. Rechargeable alkali-galvanic cell.

- 1—Casing; 2—casing lug;
- 3—negative electrode; 4—negative current lead; 5—casing compound;
- 6—diaphragm; 7—auxiliary diaphragm; 8—positive electrode;
- 9—positive current lead;
- 10—depressions of positive current lead; 11—plastic film.



SUB CODE: 09/ SUBM DATE: 03Jun65/

Card 2/2 *egls*

KOCHERGINSKIY H. D.

USSR/Chemistry

Card 1/1

Authors	:	Kocherginskiy, M. J., and Lukovtsev, P. D.
Title	:	Polarization of a Porous Manganese Oxide Electrode made of a Manganese-Zinc Element.
Periodical	:	Zhur. Fiz. Khim. Vol. 28, Ed. 4, 661-670, Apr 1954
Abstract	:	Experimental methods used for measuring the potential of manganese dioxide, and the drop involtage in cells and a porous manganic oxide electrode, and calculations for a uniform distribution of voltage in manganese-zinc agglomerates. Nine references; tables; graphs.
Institution	:
Submitted	:	June 16, 1953

KOCHEROVSKIY, M.D.: LUKOVTSY, P.D.

Reply to G.O. Coleman. Zhur.fis.khim. 29 no.7:1325 J1 '55.
(NIRA 9:3)

(Electrodes) (Coleman, G.O.)

INVENTOR: Iskenderovskiy, M. D., Pen'kova, L. V., Arinova, M. I., Shaglya, V. V.

TITLE: Electrolyte-paste for air-zinc batteries. Class H 01a, 21c, 10 sub 12, 1a. 132670

SOURCE: Byul. izobreteniy i tovarnykh znakov. no. 2, 1963, 14

REF: ABSTRACT dry battery, electrolyte paste

ABSTRACT: Use of concentrated solutions of caustic potash of density not less than 1.40 and (or) caustic soda not less than 1.40 in any proportion as an electrolyte, and starch and (or) flour amounting to not less than 40 grams per liter of electrolyte as a thickening agent for air-zinc batteries, in order to increase the service life of the batteries and their shelf life prior to use.

Draw. art. has: 1 figure (see Enclosure 1) [Abstracter's note: complete translation]

ASSOCIATION: none

SUBMITTED: 26Mar62

SUP CODE: IE

DATE ACQ: 28May63

NO REF SOV: 000

ENCL: 01

OTHER: 000

Card 1/1

ACC NR: AP6034026

SOURCE CODE: UR/0080/66/039/010/2236/2243

AUTHOR: Gordeyeva, L. Ya.; Kocherginskiy, M. D.; Pen'kova, L. Y.

ORG: none

TITLE: On minimizing self-dissolution of zinc electrode in zinc-air cells with alkali electrolyte 19

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ABSTRACT: Specifications concerning purity, particle size, and amalgamation of zinc powder and composition of the paste for the zinc electrode, also concerning the purity of the alkali electrolyte, were developed as a result of experiments which were described. The purpose of the experiments was to minimize the rate of dissolution of zinc at the electrolyte-air interface in the stored or operating zinc-air battery of the "VOSTOK" type, which was developed in the past few years for radio power supply. The specifications developed were checked in discharge tests of the sealed individual cells and battery packs over a period of 1200 hr at a rate of 4 hr per day. Both the plate and filament batteries were tested, freshly made or stored for 15 months. The new battery pack of the "VOSTOK" type is 3.5 times lighter and

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3 times smaller in volume than the serial pack of the zinc-salt-manganese system of equal capacity. Thanks for consultations were expressed to Professor Z. A. Iofa. Orig. art. has: 3 figures, 3 tables, and 6 formulas. [WA-100]

SUB CODE: 10/ SUBM DATE: 26Jul64/ ORIG REF: 016/

Card 2/2

K. SHERGINSKIY, M.M.
LAPIN, O.F.; KRUSHCHEV, M.S.; GORODINSEAYA, Ye.A.; ~~KOCHERGINSKIY, M.M.~~
TILYANKOVICH, V.S.; SHANFMAN, S.D.; OSTANOV, Kh.

Improving the smelting of boron carbide. Prom.energ. 12 no.8:17-18
Ag '57. (MIRA 10:10)

(Boron carbides) (Smelting)

KOCHERGOV, V.N.; SHAPIRO, M.S.

One-pipe system in the simultaneous gathering of oil and gas in
fields of the Stavropol Territory. Neftaprom.delo no.2:27-30
'64. (MIRA 17:4)

1. Institut "Krasnodarnefteproyekt".

GERMERLING, A.V., kandidat tekhnicheskikh nauk; TROFIMOV, V.I., kandidat tekhnicheskikh nauk; MILNYKOVSKIY, I.Ye., kandidat tekhnicheskikh nauk; KOCHERKOVA, Ye.Ye., kandidat tekhnicheskikh nauk; ZHILYAYEV, B.I., laureat Stalinskoy premii, inzhener, redaktor; MOSTOVTSOVA, M.P., redaktor; MEDVEDEV, L.Ya., tekhnicheskii redaktor.

[Investigation of the work of framed structures] Issledovanie raboty ramnykh konstruktii. Moskva, 1955. 176 p. (Moscow. Tsentral'nyi nauchno-issledovatel'skii institut promyshlennykh soorushenii. Nauchnoe soobshchenie no.21). (MLRA 9:2)
(Structural frames)

SOV/124-57-4-5018

Translation from: Referativnyy zhurnal. Mekhanika, 1957. Nr 4, p 151 (USSR)

AUTHOR: Kochergova, Ye. Ye.

TITLE: The Material Properties of Bloom and Slab Samples (Svoystva materiala obraztsov blumsov i slyahov)

PERIODICAL: V sb.: Issledovaniya po stal'nyim konstruktsiyam. Moscow, 1956, pp 201-211

ABSTRACT: Bibliographic entry

Card 1/1

KOCHERGOVA, Ye.Ye., kand.tekhn.nauk

Defects in crane-rail beams and measures for prolonging their life.
Stroi.prom, 16 no.4:21 Ap '58. (MIRA 11:4)
(Cranes, derricks, etc.)

KOCHEROVA, Ye.Ye., kand.tekhn.nauk

Effect of the depth of welding on the strength of crane beams
in joining their webs with the upper belts. Prom. stroi. 38
no.8:55-59 '60. (MIRA 13:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh
konstruktsiy Akademii stroitel'stva i arkhitektury SSSR.
(Cranes, derricks, etc.) (Electric welding)

KOCHEROVA, Ye.Ye. kand.tekhn.nauk

Vibration strength of joints in low-alloy steel. Trudy
TSNIISK no.4:211-226 '61. (MIRA 15:2)
(Steel alloys—Welding)
(Welding—Testing)

TARAN, V.D., prof., doktor tekhn.nauk; KOCHERGOVA, Ye.Ye., kand.tekhn.
nauk

Testing the strength of welded joints of rolled semifinished
assembly pieces. Mont. i spets. rab. v stroi. 23 no. 1:14-16
Ja '61. (MIRA 14:1)

(Tanks)

KOCHERGOVA, Ye.Ye., kand.tekhn.nauk

Determining stresses in the columns of the frame of the
"Ukraina" hotel building during construction and operation.
Trudy TSNIISK no.13;200-213 '62. (MIRA 15:11)
(Moscow—Hotels, taverns, etc.)
(Columns, Iron and steel)

KOCHERGOVA, Ye.Ye., kand.tekhn.nauk

Function under shearing stress of unfinished bolts made of St. 3,
St. 5 and 350S steel. Prom. stroi. 40 [i.e. 41.] no.3:46-48 ⁴
'63. (MIRA 16:3)

1. Tsentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh
konstruktsey Akademii stroitel'stva i arkhitektury SSSR.
(Bolts and nuts--Testing)

ACCESSION NR: AT4010744

8/2839/83/000/002/0138/0142

BR

AUTHOR: Kochergova, Ya. Ya. (Candidate of technical sciences)

TITLE: Fatigue strength of welded joints in aluminum alloy AV-T1

SOURCE: ASIA SSSR. Institut stroitel'nykh konstruktsey. Stroitel'nyye konstruktssii iz alyuminiyevykh splavov, no. 2, 1963, 138-142

TOPIC TAGS: aluminum alloy, alloy AV-T1, loading, fatigue strength, welding, cyclic loading, aluminum

ABSTRACT: For an application of aluminum alloys in civil structures subjected to cyclic loads, data are needed on fatigue strength of specimens with a rolled surface and of welded and riveted joints. Fatigue tests were carried out at TsNIIK, ASIA SSSR on base material and welded joints of the Al-Mg-Si alloy AV-T1 recommended for welded structures because of its relatively high strength and satisfactory weldability. Test specimens were cut from a 10 mm thick AV-T1 sheet along its rolling direction, and weldability tests were carried out at the welding section of the central laboratory for metallic structures of TsNIIK. Five types of specimens were prepared (see also Figure 1 of the Encloure);

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ACCESSION NR: AT4010744

- series 1 - reference specimens of as-rolled, plain plate;
- series 2 - specimens with a hole for stress concentration;
- series 3 - specimens with a transverse V-type butt-weld made by the automatic MIG process with weld reinforcement removed flush;
- series 4 - specimens as in series 3, but in the as-welded condition;
- series 5 - specimens with a double-lapped joint fillet-welded from both sides by the manual TIG process.

The tests were carried out on a testing machine of the GRM-1 type in cyclic tension at a stress ratio 0.14. Test results were evaluated by statistical methods and plotted in double-logarithmic coordinates. Table 1 of the Enclosure shows the fatigue strength of specimens at 2×10^6 cycles. The same table shows, for comparison, test results of specimens of the alloy AMg6 obtained at LSI and of the alloy 61S-T from American tests. It was concluded that specimens of AV-T1 have a similar fatigue strength as specimens of 61S-T, while specimens of AMg6 show higher fatigue strength values for the welded joints. In addition it was found that alloy AV-T1 is more sensitive to cyclic loading than steel of the type St 3. The ratio of the endurance limit at the given loading to the static strength is 0.3 for AV-T1 alloy, and 0.5 for steel. The ratio of the fatigue strength at 2×10^6 cycles of welded joints to the fatigue strength of plain plate of AV-T1 under the same conditions was found to be:

Card

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ACCESSION NR: AT4010744

0.42 for butt-welded joints as welded,
0.6 for butt-welded joints with reinforcement removed, and 0.24 for longitudinal
fillet welds. Orig. art. has: 8 figures and 2 tables.

ASSOCIATION: Institut stroitel'nykh konstruktov, ASIA SSSR (Institute of Structural
Construction, ASIA, SSSR)

SUBMITTED: 00

DATE ACQ: 17Jan64

ENCL: 02

SUB CODE: MM

NO REF SOV: 003

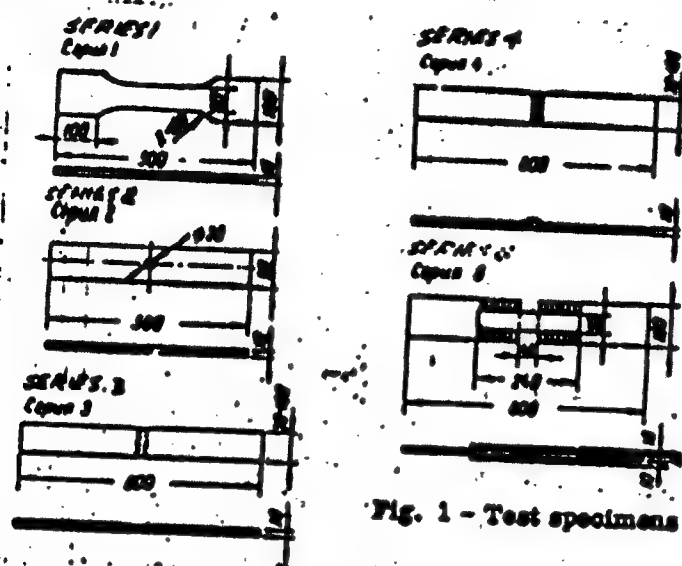
OTHER: 001

Card

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ACCESSION NR: AT4010744

ENCLOSURE: 01



Card

4/5

ACCESSION NR: AT4010744

ENCLOSURE, 02

TABLE 1 - Fatigue strength in kg/mm² at 2×10^6 cycles for tension-to-tension axial loading at a stress ratio 0.14 (Combined from text and Table 1 of orig. art.)

Type of specimen		TANIEK of ASIA	LEHI data for	American data
Ser.	Description	SSSR data for	AMg6 alloy	(1947) for 518-T
		AV-T1 alloy with	with 35.8	alloy with 29.5
		33 kg/mm ² U.T.S.	kg/mm ² U.T.S.	kg/mm ² U.T.S.
1	Plain plate	9.9		
2	Plate with hole	6.6	9.5	11
3	Butt-welded joint,		6.0	—
	reinforcement			
	removed	6.0	8.6	—
4	Butt-welded joint,			
	as welded	4.2	6.6	4.8
5	Joint with trans-			
	verse fillet weld	—	5.0	4
6	Welded Tee joint	—	—	3.8
	Joint with longi-			
	tudinal fillet welds	2.4	3.17	2.1

Card

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BALDIN, V.A., doktor tekhn.nauk; KOCHERGOVA, Ye.Ye., kand.tekhn.nauk

Beams made of two sorts of steel. Prom.stroi. 42 no.11:26-23 N
'64. (MIRA 18:8)

LEVINSON, Yakov Iosifovich [deceased]; KOCHERIOIN, S.A., redaktor;
ZUDAKIN, I.M., tekhnicheskiy redaktor.

[The aerodynamics of high speed; gas dynamics] Aerodinamika bol'-
shikh skorostei; gazovaya dinamika. Moskva, Oborongiz, 1948. 336 p.
[Photostat] (MIRA 8:2)
(Aerodynamics)

KOCHERIN, A.A.) SOKOLOV, B.V.

New method of joining tire tubes without the use of reinforcing belts.
Kauch. i rez. 20 no.3:46-50 Mr '61. (MIRA 14:3)

1. Yaroslavskiy shinnyy zavod.
(Tires, Rubber)

KOCHERINA, Ye. I.

"Contributions from the Melouzensk solonetz field station report for 1935,"
I. N. Antipov-Karatsyev, M. I. Savvinov, V. N. Filippovs, E. I. Kocherina, B. A.
Piunovskiy, I. P. Serdobolskiy and V. A. Solov'yev. Trans. Comm. on Irrigation,
Acad. Sci. USSR, Bull. No. 9, 11-256, 1937.

Extensive chem. and mineralogical data on the material and on the water
ext. of the soil complex of the Transvolga region are presented graphically and
in numerous tables. The variations in the chem. make-up, the extensive solonetz
varieties found there and the effect of chem. treatment on the Na and Ca in the
exchange complex and general compn. of soil, with reference to crop yields are
also given and discussed.

KUCHERINA, Ye. I.

Soils - Analysis

Comparative study of methods for mechanical analysis of soils. Pochvovedenie No. 7, 1952

9. Monthly List of Russian Accessions, Library of Congress, September 1957, Uncl.

2

KOCHERINA, N.I.

Physical properties of terrace soils of the Kutuluka River, Kuybyshev Region.
Trudy Pochvennogo Inst. im. V.V. Dokuchaeva, Akad. Nauk S.S.S.R. 37, 242-
311 '52.
(GA 47 no.21:11626 '53) (MIRA 6:3)

BABIN, Leonid Vinar'yevich; KOCHETOV, V., red.; MURAKAYEVA, A.,
red.

[Uzbekistan; a concise manual and guidebook] Uzbekistan;
kratkii spravochnik-putevoditel'. Tashkent, Gostizdat UzSSR,
1963. 227 p.
(MIRA 17:7)

SMIRNOV, Sergey Mikhaylovich, kand. tekhn. nauk, dots.; GRIVIN, Vladislav Vol'demarovich; YELIN, Al'bert Vasil'yevich; KOCHEROV, Anatoliy Vasil'yevich. Prinimali uchastiye: TSAREVA, T.I.; EYGENEYOT, V.M.; YEROFEYEV, A.V., kand. tekhn. nauk dots., reitsent; SAKHAROV, Ye.V., st. prepod., reitsent; MINAYEVA, T.M., red.; FYATNITSKIY, V.N., tekhn. red.

[Laboratory work on the course "Principles of automatic control and the automation of production processes."] Laboratornyi praktikum po kursu "Osnovy avtomatiki i avtomatizatsii proizvodstvennykh protsessov." [By] S.M. Smirnov i dr. Moskva, Gislengpror, 1963. 322p. (MIRA 17:3)

NOVIKOV, B.P.; KHVALENSKAYA, L.B.; LETSENKO, L.A.; KOTENKOV, I.V.

Experience in the control of erysipeloid in a seat combine. Zhur.
mikrobiol., epid. i immu. 41 no.12:110-112 D 1974.

(MIRA 18:3)

1. Ivanovskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya.

KOCHEROV, N.P.; FEDORENKO, N.P.

Economic features of the methods of polystyrene manufacture.
Plast.massy no.1:53-55 '63. (MIRA 16:2)
(Styrene polymers)

KOCHEROV, N.P.; FEDORENKO, N.P.; ANICHKINA, N.M.

Economic efficiency of the use of plastics in the manufacture of
home refrigerators. Plast.massy no.10:43-45 '63. (MIRA 16:10)

BOGDANOV, Boris Vladimirovich; DUBININ, M.P., inzh., retsentsent; KOCHEROV,
L.P., inzh., retsentsent; PEMOVA, Ye.M., red.; KOROVENKO, Yu.N.,
tekh. red.

[Seagoing and roader barges; design and construction] Morskije i
reidovye barshi; proektirovanie i konstruktsiia. Leningrad, Dad-
prongiz, 1963. 294 p.
(Barges---Design and construction) (MIRA 16:5)

KOCHEROV, N.P.; PERFILOV, N.A.

Changes in the tracks of α -particles and electrons taking
place in the development of nuclear emulsions. Zhur. nauch.
i prikl. fot. i kin. 8 no.6:416-419 M-D '63.

(MIRA 17:1)

KOCHEROV, N.P.; PERFILOV, N.A.

Measuring photolytic silver amounts in emulsions by means of
activation analysis. Zhur. nauch. i prikl. fot. i kin. 9 no.5:
360-363 9-0 '64. (MIRA 17:10)

KOCHEROV, N.P.; FYDORENKO, N.P.; MARKOSOVA, N.M.

Economics of the production of impact resistant polystyrene plastics.
Plast. massy no.4:1-4 '65. (MIRA 18:6)

KOCHEROV, Nikolay Pavlovich; GRISHINA, Tat'yana Mikhaylovna;
SOMINSKIY, V.S., red.

[Economic efficiency of the use of polyolefins and
polystyrene plastics in the manufacture of machinery]
Ekonomicheskaya effektivnost' primeneniya poliolefinov
i polistirol'nykh plastikov v mashinostroenii. Lenin-
grad, 1965. 31 p. (MIRA 18:5)

KOCHEROV, P.M., insh; TISHKOVETS, I.V., insh.

Experience in constructing ice-breaking tugboats. Sudostroenie
24 no.8:54-58 Ag '58. (MIRA 11:10)
(ice-breaking vessels) (Tugboats)

KOCHEROV, P.W., insh.

Experience in using large slips in building small and medium-sized
ships. Sudostroenie 25 no.2:59-60 P '59. (MIRA 12:4)
(Shipbuilding)

18(6)

AUTHORS:

Kocherov, P. V., Gertman, Yu. M., Gel'd, P. V. SOV/78-4-5-27/46

TITLE:

The Formation Heat of the Alloys of Calcium With Aluminum
(Teploty obrazovaniya splavov kal'tsiya s aluminium)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 5,
pp 1106-1112 (USSR)

ABSTRACT:

The formation heat of the pure intermetallic compounds of calcium with aluminum (CaAl_2 and CaAl_4) was calculated. The alloy was produced from the purest electrolytic twice distilled calcium and electrolytic aluminum. Melting of the components took place in the purest argon atmosphere. By means of radiostructural and metallographical investigations the composition of the alloy was determined and the results are shown by table 1. Determination of the formation heat of the alloys was carried out by means of an ordinary isothermal calorimeter, viz. by the differential method as follows: First the combustion heat of the alloy, and then

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The Formation Heat of the Alloys of Calcium With Aluminum

SOV/73-4-5-27/46

the equivalent combustion heat after composition of the mechanical mixtures of calcium and aluminum was investigated. From the difference between the average values the formation heat of the respective alloy was calculated. The accuracy of the method is 1.0 - 1.5 kcal/g-at. The combustion method, the oxidation heat of the purest metals, as well as the six alloys and their corresponding mechanical mixtures were investigated. The results obtained by calorimetric determinations carried out by the combustion method are shown by table 2. The combustion heat of the alloys and the mechanical mixtures of calcium and aluminum are shown by figure 3. For $\Delta H_{Al_2O_3}$

- 399 kcal/g-mol Al_2O_3 was found. This value agrees well with data found in publications; $\Delta H_{Al_2O_3} = -400 \pm 2.0$ kcal/g-mol Al_2O_3 . The dissolution heat of calcium and aluminum and of their alloys in 5 n hydrochloric acid was investigated. The

Card 2/4

SOV/78-4-5-27/46

The Formation Heat of the Alloys of Calcium With Aluminum

results obtained are shown by table 3 and figure 4. Figure 5 is a graphical representation of the formation heats of calcium- and aluminum alloys of various composition according to the combustion- and dissolution method. The experimentally obtained values agree well with those found in publications. The following values were found for the formation heat of the intermetallic compounds CaAl_2 and CaAl_4 :

$$\Delta H_{\text{CaAl}_2}^{22.5^\circ} = -17.5 \pm 1.5 \text{ kcal/g-at and}$$

$$\Delta H_{\text{CaAl}_4}^{22.5^\circ} = -10.3 \pm 1.0 \text{ kcal/g-at.}$$

There are 5 figures, 3 tables, and 13 references, 2 of which are Soviet.

Card 3/4

^{P.}
KOCHEROV, A.V.; GERTMAN, Yu.M.

Heat of formation of fused calcium - aluminum systems. Trudy Ural.
politekh. inst. no. 92:135-140 '59. (MIRA 13:12)
(Heat of formation) (Aluminum)

KOCHEROV, P.V.; GEL'D, P.V.

Elasticity of calcium vapors above fused calcium - aluminum systems.
Trudy Ural. politekh. inst. no.92:141-146 '59. (MIRA 13:12)
(Aluminum alloys) (Vapor pressure)

KOCHEROV, P. V., Cand Tech Sci (diss) -- "The thermochemistry of calcium-aluminum alloys". Sverdlovsk, 1960. 14 pp (Min Higher and Inter Spec Educ RSPBR, Ural Polytech Inst im S. M. Kirov), 150 copies (KL, No 15, 1960, 135)

18.7540

29036

S/081/61/000/018/007/027
B104/B101

AUTHORS: Gel'd, P. V., Kocherov, P. V.

TITLE: Regulation of liquid calcium - aluminum alloys

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 18, 1961, 51, abstract
18B363 (Sb. "Stroyeniye i svoystva zhidk. metallov". M.,
1960, 194 - 199)

TEXT: The enthalpy of two Ca-Al alloys containing 42.55 and 24.3% by weight of Ca was investigated as a function of temperature in the range of 200 - 1200°C. According to its composition, the first of these alloys is similar to the congruently melting compound CaAl_2 (melting point 1079°), the second is similar to the incongruently melting compound CaAl_4 (melting point 700°C). Results of measurements were compared with quantities calculated according to the additivity rule. To explain the divergences obtained it is assumed that during the melting process of the intermetallic compounds and during superheating a considerable change of the potential energy of the atoms occurs. This is caused by a change of the degree of

Card 1/2

KOCHEROV, P.V.; GEL'D, P.V.

Equilibrium of gaseous calcium with Ca-Al alloys. Izv. vys.
ucheb. zav.; Chern. met. no.2:5-9 '60. (MIRA 15:5)

1. Ural'skiy politekhnicheskiy institut.
(Vapor-liquid equilibrium)
(Intermetallic compounds)

S/180/60/000/006/027/030
E201/E391

AUTHORS: Gel'd, P.V. and Kocherov, P.V. (Sverdlovsk)
TITLE: Ordering of Liquid Alloys of Calcium and Aluminium
PERIODICAL: Investiya Akademii nauk SSSR, Otdeleniye
tekhnicheskikh nauk, Metallurgiya i toplivo,
1960, No. 6, pp. 142 - 145

TEXT: The authors report measurements of the temperature dependence of the enthalpy of two Ca-Al alloys containing 42.55 and 24.3% Ca by weight. The first was close in its composition to CaAl_2 (melting point at 1079°C) and the second could be approximately represented by CaAl_4 (melting point at 700°C). Enthalpies were measured using a high-temperature calorimeter described earlier (Ref. 3). Fig. 1 gives the temperature dependence of enthalpy for CaAl_2 (Fig. 1a) and CaAl_4 (Fig. 1b). The latent heat of fusion of CaAl_2 (11.8 - 13.5 kcal/g-mole) is considerably greater than

✓

Card 1/2

KOCHEROV, P.V.; QEL'D, P.V.

Some peculiarities of the melting process of congruent calcium
aluminide. Trudy Ural. politekh. inst. no.94:174-178 '60.
(Aluminum-calcium alloys) (MIRA 15:6)

Kocherov, P. V.

5.2610

8/078/60/005/008/004/018
B004/B052 82324

AUTHORS: Kocherov, P. V., Gel'd, P. V.

TITLE: Enthalpy and Dissociation Vapor Pressure¹ of CaAl_2

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 8,
pp. 1774-1782

TEXT: On the basis of previous papers on CaAl_2 and CaAl_4 (Refs 1, 2), the authors investigated the influence of disordering of CaAl_2 on the physical data of this compound. Two alloys were produced for measuring the enthalpy. One (I) contained 43.7 weight% of Ca, thus corresponding to CaAl_2 with a content of 2% of free metallic Ca. The second one (II) contained 24.3 weight% of Ca, i.e., it consisted of a solid solution of 11% of Ca in 89% of CaAl_4 . For measuring the vapor pressure, alloys of 28.90, 33.41, 59.48, 55.36, 48.93, and 46.86 weight% of Ca were produced. The temperature dependence of the enthalpy was measured in an adiabatic calorimeter of the Skuratov system, and has already been described in previous papers
Card 1/3

Enthalpy and Dissociation Vapor Pressure of
 CaAl_2

S/078/60/005/008/004/018
B004/B052 82324

of solid CaAl_2 . This proved to be due to the greater heat of formation
of solid CaAl_2 from solid Ca and solid CaAl_4 , i.e., the stronger bond
between Ca and Al atoms in the congruently melting compound CaAl_2 . There
are 5 figures, 2 tables, and 12 references: 8 Soviet and 4 US. ✓

SUBMITTED: May 22, 1959

Card 3/3

1. 17129-66 RT(m)/RT(t)/ETI LIP(e) JD/AM/JO

ALL THE ABOVE

SOURCE CODE: US/0000/00/000/010/0000/0000

AUTHOR: Mochalov, P. V.; Gal'd, P. V.; Dorn, P. A.

61
B

REF SOURCE: Tr. Ural'skogo politekh. in-ta, sb. 144, 1983, 139-141

TITLE: Kinematic viscosity in liquid alloys of the iron-silicon system

SOURCE: Ref. sb. Fizika, Abs. 1983

27 27

TOPIC TAGS: silicon containing alloy, activation energy, entropy, isobaric potential

TRANSLATION: The kinematic viscosity of the phase components of the iron-silicon system (Fe_3Si , $Fe_{23}Si_{11}$, Fe_3Si_2 , $FeSi_2$) and alloys containing 62 and 85% Si was studied. The experimental data obtained permits the calculation of the activation energies, changes in isobaric-isothermal potential and changes in activation entropy for viscous flow of melts. From this, one can make conclusions concerning the microinhomogeneous structure of iron-silicon melts.

SUB CODE: 11/ SUB-ENTRY: none

Card 1/1 of 8

L 05900-67 ETP(k)/ENT(m)/EMP(t)/ETI IJP(c) JD

ACC NR: AR6017478

SOURCE CODE: UR/0137/66/000/001/A005/A005

AUTHOR: Muradov, V. G.; Kocherov, P. V.

TITLE: Measuring the pressure of saturated calcium vapor above Al-Ca alloys in the region of the intermetallic compound Al_2Ca

27 27

SOURCE: Ref. zh. Metallurgiya, Abs. 1A30

REF SOURCE: Uch. zap. Ul'yanskiy gos. ped. in-t, v. 18, no. 5, 1964, 78-80

TOPIC TAGS: calcium, vapor pressure, aluminum base alloy, calcium alloy, intermetallic compound

ABSTRACT: Aluminum-calcium alloys were melted in a vacuum induction furnace in a purified argon atmosphere at pressures of 400-500 mm Hg and temperatures above 700°C. The diffusion method was used for determining the pressure of saturated calcium vapor. The vapor pressure above an alloy containing 41% Ca was measured in the 700-650°C region where Al_2Ca is in equilibrium with solid Al_4Ca rather than with the melt. It is assumed that Al_4Ca crystals are stable even in the liquid phase up to 850°C. Transition to an alloy with 43% Ca causes a smooth increase in calcium vapor pressure by approximately $\frac{1}{2}$ an order of magnitude. This indicates that there is a definite region of homogeneity in the compound Al_2Ca where the vapor pressure is a function of both temperature and alloy composition. The vapor pressure above an alloy with 50% Ca co-

Cord 1/2

UDC: 669.71.891.5:541.12

L 05202-67

ACC NR: AR6017478

incides with the pressure above the pure metal in both the liquid and solid phases.
 $\ln P_{Ca} (41\% Ca) = 9.65 - 13655/T$; $\ln P_{Ca} (43\% Ca) = 8.33 - 11880/T$; $\ln P_{Ca} (50\% Ca) = 8.18 - 9086/T$.
 The heat of sublimation for calcium in alloys with 41 and 43% is 58.5 kcal/hr-atom
 while the heat of sublimation for an alloy with 50% Ca is the same as for the pure
 metal. D. Kasheva. [Translation of abstract]

SUB CODE: 20744

kh

Card 2/2

ACC NR: AR6013658

SOURCE CODE: UR/0038/63/000/018/E003/E009

AUTHOR: Baum, B. A.; Gal'd, P. V.; Kosharov, P. V.; Kayshev, E. A.

TITLE: Viscosity of liquid chromium-silicon alloys

SOURCE: Ref. zh. Fizika, Abs. 10E64

REF SOURCE: Tr. Ural'skogo politekhn. in-ta, sb. 144, 1965, 136-139

TOPIC TAGS: fluid viscosity, silicon containing alloy, iron base alloy, chromium base alloy, *viscosity of liquid*

TRANSLATION: Results of a study of the viscosity η of silicon and chromium and its silicides are given. Graphs of η vs alloy temperature are given. The anomalous change in the η of Si and CrSi_2 with increasing temperature ($\partial^2\eta/\partial T^2 < 0$) is explained by changes in the nature of interparticle interaction and in the structure of these alloys. The viscosity properties of chromium-silicon and iron-silicon alloys are compared.

SUB CODE: 11

Card 1/1

SHEVCHENKO, F., prof.; AKHTAMOV, A., dotsent; ARIPOV, S., nauchn.
sotr.; PAK, N., nauchn. sotr.; NAVRUZOV, M., zhurnal'st;
TANKHEL'SON, A., zhurnal'st; KOCHEROV, V., red.; BAKHTIYAROV, A.,
tekhn. red.

[I.P.Pavlov Samarkand State Medical Institute] Samarkandskii
gosudarstvennyi meditsinskii institut im. akademika I.P.Pavlova;
kratkii spravochnik. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1962.
25 p.

(MIRA 16:8)

1. Samarkandskiy gosudarstvennyy meditsinskiy institut (for
Aripov, Pak).

(SAMARKAND--MEDICAL COLLEGES)

KOCHETOV, V.I., LEVIN, A.I.; MUKHIN, V.A.

Investigating conditions for the electrolytic refining of copper
in a nickel-containing electrolyte. Izv. vys. ucheb. zav.; tevet.
met. 8 no. 5:54-58 '65. (MIRA 18:10)

1. Ural'skiy politekhnicheskiy institut, kafedra tekhnologii
elektrokhimicheskikh proizvodstv.

KOZLOV, Vladimir Ivanovich; SON DIN FA [Son Chin-hw]; IEXHAKOV,
Rakhamtulla; KUCHEROV, V.A., red.; ABBASOV, T., tekhn. red.

[Striving for a diversified development of agriculture] V
bor'be za kompleksnoe razvitie khoziaistva. Tashkent, Gos-
izdat UzSSR, 1961. 23 p. (MIRA 15:10)
(Uzbekistan--Agriculture)

KOCHEROV, V.I.; LETSNIK, Ye.S.; MUKHIN, V.A.; LEVIN, A.I.

Bath voltage balance and ways of perfecting copper foil production. Izv. vys. ucheb. zav., tovt. met. 7 no. 5:39-44
'64 (MIRA 18:1)

1. Kafedra tekhnologii elektrokhimicheskikh proizvodstv Ural'skogo politekhnicheskogo instituta.

ROS 8000

Author : Priselkov, M.M., Pushkar', E.G., Arkhipova, A.V.,
Kocherova, A.N.

Inst : -

Title : Decomposition of Pyramidon and Some Other Drugs by
Microorganisms.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510008-5"

Orig Pub : Aptech. delo, 1956, No 3, 38-43.

Abstract : It was demonstrated by growing E. coli, Proteus and Staphylococci on meat-peptone media containing 0.5-1% pyramidon, antipyrene or caffeine that multiplication of the organisms was retarded, especially in the presence of pyramidon, and that their sugar fermenting and proteolytic activity was suppressed. It was found that microbes destroyed pyramidon and antipyrene molecules by the utilization of carbon and nitrogen.

Card 1/2

Pharm. Inst., Moscow

USSR/Pharmacology - Toxicology, Anti-inflammatory Agents.

U-6

Abstr Jour : Ref Zhur - Biol., No 3, 1958, 13029

Proteus destroyed over one-half of the pyramidon present in the medium in concentrations up to 0.5%.

KOCHEROVA, M.

With the participation of the entire collective. Sov. profsoiuzy
16 no.20:39-41 O '60. (MIRA 13:11)

1. Predsedatel' komiteta profsoyuza Cheboksarskogo khlopkhatobumashnogo kombinata.

(Cheboksary--Cotton manufacture--Hygienic aspects)

KOCHEROVA, M.V.

Traumatism and disease control. Tekst.prom. 19 no.8:54-56
Ag '59. (MIRA 13:1)

1. Predsedatel' fabrichnogo komiteta Cheboksarskogo khlopchatobu-
washnogo kombinata.

(Cheboksary--Textile workers--Diseases and hygiene)
(Textile industry--Safety measures)

ABRAMOV, L.T.; AVEROCHKINA, M.V.; KOCHEROVA, M.D.; FILIPPOVA, L.S.,
red.; VASIL'YEVA, M.N., ~~tekhn.red.~~

[Antiseiving measures on railroads] Protivopuchimye mero-
priiatiia na shosnykh dorogakh. Moskva, Transzheldorizdat,
1962. 22 p. (MIRA 15:11)

(Railroads--Maintenance and repair)
(Soil mechanics--Research)

ABRAMOV, L.T., kand.tekhn.nauk; KOCHEROVA, N.D., inzh.

Investigating the process of soil heaving. Vest.TSNII MPS
21 no.6:28-30 '62. (MIRA 15:9)
(Railroads ~~book~~) (Soil stabilisation)

AGRAMOV, L.T., kand.tekhn.nauk; KOCHKHOVA, N.D., inzh.; SHEVIAKOV, A.I., inzh.

Efficiency of the measures applied for heaving control. Vest.TSNII MPS
22 no.1:62-63 '63. (MIRA 16'4)
(Soil stabilisation) (Railroads—Track)

POLYAKOV, V.F., inzh.; BIKITIN, V.A., inzh.; RYSIN, V.I., inzh.;
KOCHEROVA, V.I.; TOLUBAYeva, Ya.P.; HUDREKOVA, A.V.;
TSVETKOV, D.; VLADIMIROV, A.N.

Exchange of experience between the enterprises of economic
councils. Torff. prom. 38 no.4:31-35 '61. (HIRA 14:9)

1. Sverdlovskaya fabrika Izoplit (for Polyakov).
2. Demidovskoye predpriyatiye Gor'kovskogo Soveta narodnogo khozyaystva (for Bikitin).
3. Predpriyatiye Radovitskiy mekh Moskovskogo oblastnogo Soveta narodnogo khozyaystva (for Rysin).
4. Kom-somol'skoye terri-toriotransportnoye upravleniye Ivanovskogo Soveta narodnogo khozyaystva (for Kocherova, Tolubayeva, and Hudrenova).
5. Predpriyatiye Obyavino Ienakovskikhov (for Vladimirov).
(text machinery)

SAKHAROVA, M.S., KOCHEROVSKAYA, L. V., FEDOROVA, M. Ye.

**Hydroromeite from Gornaya Racha. Vest. Mosk. un. Ser.
biol., pochv., geol., geog. 14 no.3:149-155 '59.**

(MIRA 13:6)

- 1. Kafedra mineralogii Moskovskogo universiteta.
(Georgia—Hydroromeite)**

KOCHEROVSKIY, Ye.I. [Kocherova'kyi, E.I.], vrach

Hypotension. Nauka i zhyttia 10 no. 12:47 D '60.
(HYPOTENSION)

(MIRA 14:4)

KOCHEROVSKIY, Ye.I. [Kocherovs'kiy, E.I.], vrach

Hypertension. Nauka i zhyttia 11 no. 4:51-52 Ap '61. (MIRA 14:5)
(Hypertension)

Kocherovskiy, Yu. E.

Kocherovskiy, Yu. E. - "The Characteristics of Diphtheria Bacteria in the City of Tashkent." Tashkent State Medical Inst imeni V. M. Molotov. Tashkent, 1956 (Dissertation for the Degree of Candidate in Medical Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

USSR / Microbiology. Microbes Pathogenic for Man and Animals. Bacteria. Root Bacteria. F-4

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76798.

Author : Samsonov, P. F.; Kocherovskiy, Yu. E.

Inst : Not given.

Title : On the Serological Peculiarities of the Produced Diphtheria Rod Strain. PW8.

Orig Pub: Med. zh. Uzbekistana, 1957, No 8, 50-53.

Abstract: The serological properties of the strain PW8 obtained from the Tashkent Institute of Vaccines and Serums, were studied in comparison with standard strains of the Robinson 1, 2, 3, 4 serotypes, with the 6 Moscow serotype of Delyaginaya, and with diphtheria cultures from patients and carriers. The strain PW8 was agglutinated with all specific type sera only in weak dilutions, not more than

Card 1/2

47

USSR / Microbiology. Microbes Pathogenic for Man and Animals. Bacteria. Root Bacteria. F-4

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76798.

Abstract: up to 1/4 titer. The overwhelming majority of the strains (84.2%) obtained in Tashkent over a period of two epidemic outbreaks were not agglutinated at all in the antiserum PW8. Thus, the strain PW8, cultivated a long while in artificial mediums, preserved only the toxicity, while its antigenic structure was changed. In the opinion of the authors, for the preparation of diphtheria anatoxin and antitoxic sera, local cultures should also be used as compulsory antigen-strains and not only strain PW8 alone. -- M. Ya. Boyarskaya.

Card 2/2

KOCHEVSKIY, Yu.E., kand.med.nauk

Critical remarks on V.S.Abagiants's article "Clinical course of
angina of different etiology" in *Meditsinskii Zhurnal Uzbekistana*
no.8, 1959. Med. shur. Usb. no.2:65-66 F '60. (MIRA 15:2)
(THROAT_DISEASES) (ABAGIANTS, V.S.)

S/016/60/000/05/09/079

AUTHOR: Kocherovskiy, Yu. E.

TITLE: Data on the Pathogenesis of Diphtheria, I. The Incidence and
Etiology of Bacteremia.

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960,
No. 5, pp. 28 - 30

TEXT: By a study of diphtheria patients admitted to the city isolation
hospital, the author tried to determine the incidence of coccal bacteremia
during diphtheria, to classify the various species of cocci and to assess their
pathogenetic significance in diphtheria. Bacteremia was noted in 27% of the
diphtheria cases. This bacteremia may be caused by: Streptococci viridans,
Streptococci pyogenes, Streptococci anhemolyticus, Enterococci and Staphylococcus

Card 1/2

8/016/60/000/05/09/079

Data on the Pathogenesis of Diphtheria. I. The Incidence and Etiology of Bacteremia.

albus. There are 13 references, 5 of which are Soviet, 5 German, 2 Czech and 1 English.

ASSOCIATION: Kafedra mikrobiologii i Kafedra infeksionnykh bolezney
Tashkentskogo gosudarstvennogo instituta usovershenstvovaniya
vrachey (Department of Microbiology and Department of Infectious
Diseases at the Tashkent Postgraduate Medical Institute)

SUBMITTED: July 22, 1959

Card 2/2

KOCHEROVSKIY, Yu.E.

Data on the pathogenesis of diphtheria. Report No. 2: Penetration of cocci into the blood and clinical aspects of the disease.
Zhur. mikrobiol. epid. i imm. 31 no. 10:22-24 0 '60.

(MIRA 13:12)

1. Is kafedry mikrobiologii i kafedry infektsionnykh bolezney
Tashkentskogo gosudarstvennogo instituta usovershenstvovaniya vrachey.
(DIPHTHERIA) (SEPTICEMIA)

MUSABAYEV, I.K., prof.; KOCHEROVSKIY, Yu.K., dotsent

The most important results of the research activity of Uzbekistan
scientists in the realm of infectious pathology for 1959-1960.
Nauch.trudy uzh.i prak.vrach.Uzb. no.3:5-11 '62. (MIRA 16:2)
(~~UZBEKISTAN COMMUNICABLE DISEASES RESEARCH~~)

KOCHEROVSKIY, Yu.E.

"Diphtheria" by K.D.Piatkin. Received by Yu.E. Kocherovskii.
Zhur. mikrobiol., epid. i immun. 33 no.3:138 Mr '62. (MIRA 1514)
(DIPHTHERIA) (PIATKIN, K.D.)

KOCHEROVSKIY, Yu.E.

Data on the pathogenesis of diphtheria. Report No.3: Microflora of the pharynx and nose and the clinical aspects of diphtheria. Zhur. mikrobiol., epid. i immn. 40 no.4:23-26 Ap '63. (MIRA 17:5)

1. In kafedry mikrobiologii i kafedry infektsionnykh bolezney Tashkentakogo instituta usovershenstvovaniya vrachey.

KOCHEROVSKIY, Yu.E.; ABUBAKIROVA, F.Z.

Materials on the pathogenesis of dysentery. Report No.4:
Significance of the titers of anti-O-streptolysins as an
index to the participation of streptococci in the etiology of
clinical forms of dysentery. Zhur. mikrobiol., epid. i immu.
40 no.9:132-133 1963. (MIRA 17:5)

1. Is kafedry mikrobiologii i kafedry infektsionnykh bolezney
Tashkentskogo gosudarstvennogo instituta usoverasheniya
vrachey.

POKHIL'YAN, G. N., FELDOROV, D. F. and DUTYKOVA, A. A.

Inst. Microbiology and Epidemiology, Rostov-Na-Dony, (-1944-)

"The Dry Vaccine BCG,"

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 10-11, 1944.

KOVALENKO, P.P., prof.; PEREPECHAY, L.D.; KOCHER'YAN, O.N.

Apparatus for tissue lyophilisation. Vest.khir. 86 no.2:100-102 '61. (MIRA 14:2)

1. In laboratorii konservirovaniya tkaney kliniki obezheby, khirurgii (zav. - prof. P.P. Kovalenko) Rostovskogo-na-Donu meditsinskogo instituta i Rostovskogo instituta mikrobiologii i epidemiologii (dir. - kand.med.nauk A.O. Elizminchenko).
(TRANSPLANTATION OF ORGANS, TISSUES, ETC.)

POKROVSKAYA, M.P.; KAGANOVA, L.S. [deceased]; VZONOV, V.I. [deceased];
KOCHER'YAN, O.N.; GILIBANOVA, K.V.; KOTLYAROVA, R.I.; GUTOROVA, N.N.

Anabiosis as a factor in preserving the useful properties of
microorganisms for a prolonged period. Trudy IKM no.7:70-95'60
(MIKA 16:8)

(CRYPTOBIOSIS) (MICROORGANISMS—DRYING)

KOCHERYGIN, V.A.

Transperitoneal nephrectomy in a case of large hypernephroma. Khirurgia, Moskva 34 no.11:116 N '58.
(MIRA 12:1)

1. Iz Nikolo-Petrovskoy rayonnoy bol'nitsy Penezenskoy oblasti.
(KIDNEYS, neoplasms
adenocarcinoma, surg.; transabdom. nephrectomy (Rus))

KOCHERYGIN, Yu. I.

The PSh-0,75 platform mounted on a motor chassis. Biol. tekhn.-skoz.
inform. no. 6:61-62 '58. (MIRA 11:8)
(Motortrucks)

KOCHERYUIN, Yu.I., insh.

Mounted platforms. Trakt. 1 sel'khozmas. no.2:45-47 P '59.
(MIRA 12:1)

(Carriages and carts)

KOCHERYGIN, Yu.I.

The PM-0,3 mounted platform. Biol. tekhn. ekon. inform. no.9:67-68
'59. (MIRA 13:3)

(Agricultural machinery)

KOCHERYGIN, Yu.I., insh.

Effective utilisation of self-propelled chassis in transportation.
Trakt. i sel'khozmasb. 30 no.6:15 Je '60. (MIRA 13:11)
(Tractors)

KOCHERYGIN, Yu.I.

Lift book on a tractor for hauling trailers. Trakt. i
sel'khoz mash. 22 no.2:46-47 P '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhoz-
yaystvennogo mashinostroyeniya.

(Tractors)

KOCHERYGIN, Yu.I., inzh.

Standard specifications for connecting agricultural trailers to
tractors with a 0.6-1.4 ton rating. Trakt. i selkhozmasht. 32
no. 3127-28 Mr '62. (MIRA 1962)

(Tractors--Trailers)

KOCHERYGIN, Yu.I.; BUKHARKIN, V.N.

Agricultural loaders. Trakt. i sel'khoz mash. 32 no.1241-44 D '62.
(MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo
mashtabirovaniya.

(Agricultural machinery)

(loading and unloading)

KOCHERYGIN, Yu.I., inzh.

Tractor front loaders. Trakt. i sel'khoz mash. no. 5:44-46 My '64.
(MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya.

KOCHERYGINA, L.P., insh.; LIPOV, Yu.N., insh.

The UZK-250 installation for growing green forage. Trakt. 1
sel'khozmasb. no.5:34-35 My '65. (MIRA 18:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyay-
stvennogo mashinostroyeniya.

KPCHERYGINA

Bromate method for the determination of arsenic. *Y. G. Rothmanstein and Y. Y. Koryunov. Zh. Anal. Khim.* 2, 173-8 (1947).—The effect of HNO_3 concentration on the oxidation of As by bromate was studied by measuring the oxidation-reduction potential of the aque. point of an arsenous acid. titrated with a bromate soln. It was observed that starting at very small concn. of HNO_3 , trivalent As was oxidized not only by bromate but by free H_2 as well. The oxidation by free H_2 increased with the acid concn. up to an acid concn. of approx. 0.3 N. From there on up to an acid concn. of approx. 2 N, oxidation by BrO_3^- and by free H_2 concurrently. Above this concn., oxidation by BrO_3^- increased. Expts. were carried out with CuSO_4 as indicator in the titration of trivalent As with BrO_3^- . Further proved unable at acid concn. of 0.3-4 N. The indicator changed from yellow (at high acid concn. violet) to orange at the equiv. point. This indicator is reversible. M. H. 6

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723510008-5"

LERNER, L.S.; TERESHCHENKOV, A.A.; KOCHERYSHKIN, I.K.; NEVSKIY, Ye.V.,
nauchnyy red.; KONTSEVAYA, E.M., red.; PEREDERIY, S.P., tekhn.
red.

[Organisation and methodology of work in electrical engineering
laboratories] Organizatsiia i metodika laboratornykh rabot po
elektrotekhnike. Moskva, Vses. nauchno-pedagog. izd-vo Prof-
tekhizdat, 1961. 109 p. (MIRA 14:8)
(Electric engineering—Laboratory manuals)

KOCHERYZHENKOV, G. V.

AID Nr. 906-5 10 June

TURBULENT BOUNDARY LAYER ON THERMALLY NONINSULATED WING
(USSR)

Ginzburg, I. P., and G. V. Kocheryzhenskoy. IN: Leningrad. Universitet. Vestnik, no. 7: Seriya matematiki, mekhaniki i astronomii, no. 2, 1963, 86-98. S/043/63/007/002/003/008

An approximate solution is presented of the problem of a turbulent boundary layer on a thermally noninsulated wing or an axisymmetrical body in compressible hypersonic flow. The method is based on two previous papers and requires the assumption that the velocity dependence of total enthalpy in the turbulent region of the boundary layer and in the laminar sublayer can be expressed as a quadratic function of v_x in the form:

$$H = A_1 + Bv_x + Cv_x^2 \text{ in the turbulent region, and}$$

$$H = H_w + B_1v_x + C_1v_x^2 \text{ in the laminar sublayer.}$$

Card 1/2

AID No. 986-5 10 June

TURBULENT BOUNDARY LAYER [Cont'd]

8/G43/63/007/002/003/008

The velocity profiles are determined, the relationship between friction stress τ_w and thickness of momentum loss δ^* is described, and expressions for drag and local skin friction coefficient are established. The calculation procedure is outlined for a numerical example of a spherical body with a radius of 20 cm in an air flow of $M = 20$ with stagnation point-temperature $T_{00} = 7000^\circ$. The results are plotted in graphs.

[ANB]

Card 2/2

"APPROVED FOR RELEASE: 09/18/2001

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CIA-RDP86-00513R000723510008-5"

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723510008-5

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723510008-5"

GINZBURG, I.P.; KOCHERYZHENKOV, G.V.; MORDVINOVA, H.I.

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